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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army										Date: May 2017			
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0604121A I Synthetic Training Environment Refine & Prototype								
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost	
Total Program Element	-	0.000	0.000	1.600	-	1.600	15.044	20.648	32.023	40.048	Continuing	Continuing	
FD6: Synthetic Training Environment Refine & Prototype	-	0.000	0.000	1.600	-	1.600	15.044	20.648	32.023	40.048	Continuing	Continuing	

Note

The STE Program is a new start for FY2018.

A. Mission Description and Budget Item Justification

The Synthetic Training Environment (STE) is the next generation holistic collective training capability that will train units at the point of need within the entire range of Decisive Action tasks in support of Unified Land Operations in a complex operational environment. STE will be a synthetic environment utilizing one world terrain, common authoritative data and models that is cloud-enabled through the Army Enterprise Network, and is service-based through the Common Operating Environment, available for use anywhere a Soldier needs it.

FY 2018 base funding of \$1.600 million will prepare the program for Milestone A, which includes Materiel Developer (MATDEV) participation with Analysis of Alternatives (AoA) planning, CONOPS update, and Capabilities Development Document (CDD) refinement. The base funding also facilitates work effort to complete statutory and regulatory acquisition artifacts in support of Milestone (MS) A. The resourcing profile established in the POM1822 cycle ensures the STE concept is matured to a formal acquisition program of record with planned MS A in FY19 and MS B in FY22.

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	1.600	-	1.600
Total Adjustments	0.000	0.000	1.600	-	1.600
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	0.000	0.000	1.600	-	1.600

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Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604121A / <i>Synthetic Training Environment Refine & Prototype</i>				Project (Number/Name) FD6 / <i>Synthetic Training Environment Refine & Prototype</i>			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
FD6: <i>Synthetic Training Environment Refine & Prototype</i>	-	0.000	0.000	1.600	-	1.600	15.044	20.648	32.023	40.048	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note
The STE Program is a new start for FY2018.

A. Mission Description and Budget Item Justification
The Synthetic Training Environment (STE) is the next generation holistic collective training capability that will train units at the point of need within the entire range of Decisive Action tasks in support of Unified Land Operations in a complex operational environment. STE will be a synthetic environment utilizing one world terrain, common authoritative data and models that is cloud-enabled through the Army Enterprise Network, and is service-based through the Common Operating Environment, available for use anywhere a Soldier needs it.

FY 2018 base funding of \$1.600 million will prepare the program for Milestone A, which includes Materiel Developer (MATDEV) participation with Analysis of Alternatives (AoA) planning, CONOPS update, and Capabilities Development Document (CDD) refinement. The base funding also facilitates work effort to complete statutory and regulatory acquisition artifacts in support of Milestone (MS) A. The resourcing profile established ensures the STE concept is matured to a formal acquisition program of record with planned MS A in FY19 and MS B in FY22.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
Title: STE Program Management	-	-	1.600
FY 2018 Plans: Funding will be used for STE Program Management to execute Materiel Solutions Analysis (MSA) phase of the STE program with the purpose to choose the concept for the product that will be acquired, to begin translating validated capability gaps into system-specific requirements, including the Key Performance Parameters (KPPs) and Key System Attributes (KSAs), and to conduct planning to support a decision on the acquisition strategy for the product.			
Accomplishments/Planned Programs Subtotals	-	-	1.600

C. Other Program Funding Summary (\$ in Millions)
N/A

Remarks

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D. Acquisition Strategy The Synthetic Training Environment (STE) program will employ an incremental acquisition strategy where the full capability will occur in multiple increments as new capability is developed and delivered. During Materiel Solutions Analysis (MSA) and Technology Maturation Risk Reduction (TMRR) phases competitive prototyping development efforts will be awarded based on performance specifications. Milestone B (MSB) is anticipated in FY22 to enter into Engineering & Manufacturing Development (EMD).		
E. Performance Metrics N/A		